

# [eBooks] Real World Algorithms A Beginners Guide

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## **Real-World Algorithms**-Panos Louridas

2017-03-17 An introduction to algorithms for readers with no background in advanced mathematics or computer science, emphasizing examples and real-world problems. Algorithms are what we do in order not to have to do something. Algorithms consist of instructions to carry out tasks—usually dull, repetitive ones. Starting from simple building blocks, computer algorithms enable machines to recognize and produce speech, translate texts, categorize and summarize documents, describe images, and predict the weather. A task that would take hours can be completed in virtually no time by using a few lines of code in a modern scripting program. This book offers an introduction to algorithms through the real-world problems they solve. The algorithms are presented in pseudocode and can readily be implemented in a computer language. The book presents algorithms simply and accessibly, without overwhelming readers or insulting their intelligence. Readers should be comfortable with mathematical fundamentals and have a basic understanding of how computers work; all other necessary concepts are explained in the text. After presenting background in pseudocode conventions, basic terminology, and data structures, chapters cover compression, cryptography, graphs, searching and sorting, hashing, classification, strings, and chance. Each chapter describes real problems and then presents algorithms to solve them. Examples illustrate the wide range of applications, including shortest paths as a solution to paragraph line breaks, strongest paths in elections systems, hashes for song recognition, voting power Monte Carlo methods, and entropy

for machine learning. Real-World Algorithms can be used by students in disciplines from economics to applied sciences. Computer science majors can read it before using a more technical text.

**Algorithms**-Panos Louridas 2020-08 "This book is an introduction to algorithms targeting an audience with little to no computer science background. In this book, algorithms from a wide area are presented: from music to searching and sorting, to deep learning, to graphs. The author shows how algorithms are used in practice. A unique feature of the book is that it focuses on showing how algorithms really work; not just what algorithms can do. There are many books discussing that and delving in technological applications and their implications. The book aims to show not just what algorithms can do, but how they do it. Louridas covers a wide range of algorithms. He does not shy away from classic algorithms such as searching and sorting, as they are the workhorses of most applications; at the same time, he also covers a wide expanse, such as algorithms in music, non-traditional searching (like the secretary problem), graphs, and the PageRank algorithm. He introduces deep learning, showing how it works in practice, and gives an overview of the limits of computability. He finishes up the text with an eclectic discussion of implications. Most books on algorithms are either too technical, or not technical at all - showing what the algorithms do, without showing how. This book aims at striking a balance between the two methods. Algorithms should be, and can be explained, in simple terms. To repeat, an algorithm should be explained so that a human can execute it with a pen and paper"--

### **C, C++, Java, Python, PHP, JavaScript and Linux For Beginners**-Manjunath.R 2020-04-13

This BOOK highlights some basic knowledge of artificial intelligence formal constructed programming languages (like C, C++, Java, PHP, Python, JavaScript and XML) designed to interact with the hardware in a more powerful way and to communicate instructions to a machine, particularly an electronic device which is capable of receiving information (data) in a particular form and of performing a sequence of operations in accordance with a predetermined but variable set of procedural instructions (program) to produce a result in the form of information or signals. If you read this book in a public place (on a commuter train, at the beach, or on the dance floor at the Restaurants, for example), you can read proudly, with a chip on your shoulder and with your head held high. C, C++, Java, PHP, Python and JavaScript are hot stuff, and you're cool because you're reading about it. If you are just learning what kind of animals C, C++, Java, PHP, Python and JavaScript are, this BOOK will make an excellent companion to any tutorial and serve as a source of knowledge to your specific questions. And, by reading this BOOK, you'll have a broad, basic knowledge of C, C++, Java, Python, JavaScript [scripting language used in millions of Web pages such as Internet Explorer, Firefox, Chrome, Opera, and Safari] and PHP. This book is for all programmers, whether you are a novice or an experienced pro. The beginner will find its carefully paced discussions and many examples especially helpful. Of course those who have already familiar with programming are likely to derive more benefits from this book. After completing this book you will find yourself at a moderate level of expertise in C, C++, Java, PHP, Python and JavaScript programming from where you can take yourself to next levels.

**Algorithms For Dummies**-John Paul Mueller 2017-04-24 Discover how algorithms shape and impact our digital world All data, big or small, starts with algorithms. Algorithms are mathematical equations that determine what we see—based on our likes, dislikes, queries, views, interests, relationships, and more—online. They are, in a sense, the electronic gatekeepers to our digital, as well as our physical, world. This book demystifies the subject of algorithms so you can understand how important they are business and scientific decision making. Algorithms for

Dummies is a clear and concise primer for everyday people who are interested in algorithms and how they impact our digital lives. Based on the fact that we already live in a world where algorithms are behind most of the technology we use, this book offers eye-opening information on the pervasiveness and importance of this mathematical science—how it plays out in our everyday digestion of news and entertainment, as well as in its influence on our social interactions and consumerism. Readers even learn how to program an algorithm using Python! Become well-versed in the major areas comprising algorithms Examine the incredible history behind algorithms Get familiar with real-world applications of problem-solving procedures Experience hands-on development of an algorithm from start to finish with Python If you have a nagging curiosity about why an ad for that hammock you checked out on Amazon is appearing on your Facebook page, you'll find Algorithm for Dummies to be an enlightening introduction to this integral realm of math, science, and business.

### **Genetic Algorithms and Engineering Design**

Mitsuo Gen 1997-01-21 The last few years have seen important advances in the use of genetic algorithms to address challenging optimization problems in industrial engineering. Genetic Algorithms and Engineering Design is the only book to cover the most recent technologies and their application to manufacturing, presenting a comprehensive and fully up-to-date treatment of genetic algorithms in industrial engineering and operations research. Beginning with a tutorial on genetic algorithm fundamentals and their use in solving constrained and combinatorial optimization problems, the book applies these techniques to problems in specific areas—sequencing, scheduling and production plans, transportation and vehicle routing, facility layout, location-allocation, and more. Each topic features a clearly written problem description, mathematical model, and summary of conventional heuristic algorithms. All algorithms are explained in intuitive, rather than highly-technical, language and are reinforced with illustrative figures and numerical examples. Written by two internationally acknowledged experts in the field, Genetic Algorithms and Engineering Design features original material on the foundation and application of genetic algorithms, and also standardizes the terms and symbols used in other sources—making this

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complex subject truly accessible to the beginner as well as to the more advanced reader. Ideal for both self-study and classroom use, this self-contained reference provides indispensable state-of-the-art guidance to professionals and students working in industrial engineering, management science, operations research, computer science, and artificial intelligence. The only comprehensive, state-of-the-art treatment available on the use of genetic algorithms in industrial engineering and operations research . . . . Written by internationally recognized experts in the field of genetic algorithms and artificial intelligence, Genetic Algorithms and Engineering Design provides total coverage of current technologies and their application to manufacturing systems. Incorporating original material on the foundation and application of genetic algorithms, this unique resource also standardizes the terms and symbols used in other sources--making this complex subject truly accessible to students as well as experienced professionals. Designed for clarity and ease of use, this self-contained reference: \*

- Provides a comprehensive survey of selection strategies, penalty techniques, and genetic operators used for constrained and combinatorial optimization problems
- Shows how to use genetic algorithms to make production schedules, solve facility/location problems, make transportation/vehicle routing plans, enhance system reliability, and much more
- Contains detailed numerical examples, plus more than 160 auxiliary figures to make solution procedures transparent and understandable

**Real-World Python**-Lee Vaughan 2020 Real World Python is a collection of worked projects for readers who know some basic Python and want to do something with their knowledge. The book's short projects all teach thought processes and problem-solving as well as coding syntax. Readers learn to think their way through challenges like predicting the location of sailors lost at sea, discovering new planets, determining the author of a novel, selecting candidate landing sites for a Mars rover, programming a robot sentry gun to detect and shoot aliens (not humans), and more.

**Python for Beginners**-Hacktech Academy 2021-03-16 ☐ 55% OFF for Bookstores! NOW at \$ 24,95 instead of \$ 38,70 ☐ Are you new to software development? Are you curious about

learning what artificial intelligence is? Do you want to master the Python programming language? Well, this book is your best choice! Learning to code is essential to keep up with the times, increasing the opportunities that life has to offer you. Whether you are a tech enthusiast, enterprising student, or entrepreneur, if you choose to learn Python you are making the right and winning choice. Web development? Artificial intelligence? Automation and IoT? Python is all of this and more! Did you know that Python is one of the languages behind extremely popular services and websites like Instagram, YouTube, Reddit, and Mozilla? In this book, you will: Clearly and Easily Understand What Python Is and How It Works, starting from the instructions to correctly install it on your PC to show you how it runs and works. Discover Secret Tips and Tricks to Get Started with Python for Beginners to enhance your skills and help you with daily data science tasks. If you want to make your Python coding more efficient, do not miss these tips/tricks! Learn the Best Machine Learning Algorithms for Beginners with Coding Samples in Python; it is excellent for algorithmic design, as it is used extensively in data science and machine learning technologies. Learn How Python Makes Decisions to Control Flow in Programming. It is crucial to control the program execution because, in real scenarios, the situations are full of conditions, and if you want your program to mimic the real world closer, then you need to transform those real-world situations into your program. ... & Lot More! Your Customers will never stop using this book. Python was designed not only to be simple to understand but also fun to use. You can create prototypes and mini-programs very quickly, to immediately experience real satisfaction. It is thanks to this simplicity that it has gained not only a great deal of popularity but also a reputation as an "easy to learn language". You have only to click on the BUY NOW button Order Your Copy Now to Make Your Customer Starting Coding like a PRO!

**Hands-On Artificial Intelligence for Beginners**-Patrick D. Smith 2018-10-31 Grasp the fundamentals of Artificial Intelligence and build your own intelligent systems with ease Key Features Enter the world of AI with the help of solid concepts and real-world use cases Explore AI components to build real-world automated intelligence Become well versed with machine learning and deep learning concepts Book Description Virtual Assistants, such as Alexa and

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Siri, process our requests, Google's cars have started to read addresses, and Amazon's prices and Netflix's recommended videos are decided by AI. Artificial Intelligence is one of the most exciting technologies and is becoming increasingly significant in the modern world. Hands-On Artificial Intelligence for Beginners will teach you what Artificial Intelligence is and how to design and build intelligent applications. This book will teach you to harness packages such as TensorFlow in order to create powerful AI systems. You will begin with reviewing the recent changes in AI and learning how artificial neural networks (ANNs) have enabled more intelligent AI. You'll explore feedforward, recurrent, convolutional, and generative neural networks (FFNNs, RNNs, CNNs, and GNNs), as well as reinforcement learning methods. In the concluding chapters, you'll learn how to implement these methods for a variety of tasks, such as generating text for chatbots, and playing board and video games. By the end of this book, you will be able to understand exactly what you need to consider when optimizing ANNs and how to deploy and maintain AI applications. What you will learn Use TensorFlow packages to create AI systems Build feedforward, convolutional, and recurrent neural networks Implement generative models for text generation Build reinforcement learning algorithms to play games Assemble RNNs, CNNs, and decoders to create an intelligent assistant Utilize RNNs to predict stock market behavior Create and scale training pipelines and deployment architectures for AI systems Who this book is for This book is designed for beginners in AI, aspiring AI developers, as well as machine learning enthusiasts with an interest in leveraging various algorithms to build powerful AI applications.

**Data Structure Algorithms in PHP**-Dr Solomon 2020-03-13 This e-book is the Basics Edition. It illustrates the common, and essential data structures algorithms underscoring the BIG O Time Complexity basics. It also details, with examples, using one of the world's most commonly used web server-side programming language (PHP) to describe how it can be applied or implemented by developers, and novices alike, for the real-life scenario solutions. It includes highly valued examples, test code, run and test outputs, and several useful reference points. The objective is to help, established software developers, up-coming developers, scientists, mathematicians, and software novices alike. It

captures the common, and the essential basics of data structures algorithms of the BIG O Time Complexity, and described them in clear, and unambiguous terms, detailing where and how to apply them in solution development in the real world. It includes great examples code, test code, runs and test outputs, written with PHP under apache server and MySQL server. Note: PHP is a web server-side programming language. The aim is also to make it, serve as a first-hand personal reference guide, for anyone that may need it, or have to tackle solution/s involving, the Time Complexity with data structure algorithms, but also software developers/programmers, scientists, mathematicians, who may have at one point in their solution designing, and implementation work-life, encountered the Time Complexity scenarios. This e-book provides a comprehensive basic list, and addresses, the down-to-basics, of how to handle, and implement the time complexity issues, and how to turn them into viable implementable real-world solutions.

**Dive Into Algorithms**-Bradford Tuckfield 2021-01-14 Algorithms for the Adventurous is a thorough introduction to algorithms. Readers learn about many standard computer science algorithms including ones for searching, sorting, and optimisation as well as newer ones used in machine learning and artificial intelligence. Readers also learn how to understand "real life" algorithms, and need little more than high school math to understand an algorithm and the Python code needed to implement the algorithm.

**Python Machine Learning Illustrated Guide For Beginners & Intermediates**-William Sullivan 2019-08-20 Python Machine Learning Illustrated Guide For Beginners & Intermediates Machines Can Learn ?! Automation and systematization is taking over the world. Slowly but surely we continuously see the rapid expansion of artificial intelligence, self-check out cash registers, automated phone lines, people-less car-washes , etc. The world is changing, find out how python programming ties into machine learning so you don't miss out on this next big trend! This is your beginner's step by step guide with illustrated pictures! Let's face it, machine learning is here to stay for the foreseeable future and will impact the lives billions worldwide! Drastically changing the world we live in the most fundamental ways, from our perceptions, life-style, thinking and in other aspects as well.

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What You Will Learn Linear & Polynomial Regression Support Vector Machines Decision Trees Random Forest KNN Algorithm Naive Bayes Algorithm Unsupervised Learning Clustering Cross Validation Grid Search And, much, much more! If you want to learn more about python machine learning it is highly recommended you start from the ground up by using this book. Normally books on this subject matter are expensive! Why not start off by making a small and affordable investment with your illustrated beginners guide that walks you through python machine learning step by step Why choose this book? Addresses Fundamental Concepts Goes Straight To The Point, uNo fluff or Nonsense Practical Examples High Quality Diagrams "Noob friendly" (Good For Beginners & Intermediates) Contains Various Aspects of Machine Learning Endorses Learn "By Doing Approach" Concise And To The Point I been working tirelessly to provide you quality books at an affordable price. I believe this book will give you the confidence to tackle python machine learning at a fundamental level. What are you waiting for? Make the greatest investment in YOUR knowledge base right now. Buy your copy now!

**Machine Learning for Beginners**-Jason Knox 2019-12-07 Thinking about beginning a career in the field of Data Science? Do you want to understand more in depth everything that concerns Machine Learning? Or maybe you're a total newbie eager to start learning this topic from zero or so. Machine Learning is one of the most exciting developments to come out of computer science since its founding. It's dramatically changing society all around us and the new occupation of Data Science which has arisen as a result of the development of Machine Learning has opened up a new career path that guarantees employment that is exciting, at the cutting edge, and guaranteed to be challenging. Maybe you're aware of all the hype but you are quite sure what Machine Learning is. If that's the case you've come to the right place. This book is designed to be a beginner's introduction to the exciting world of Machine Learning and Data Science. In this book we are going to pull the curtain back and reveal the secrets and tools used in these exciting fields. We'll begin by recounting a history of machines and how they are an extension of the human mind and also an extension of human labor. Then we will introduce you to the concept of Machine Learning and

explore how it relates to Artificial Intelligence into Deep Learning. You will learn all the different ways that Machine Learning can be applied in the real world in practical circumstances. After this, we will reveal the different types of learning and training that is used in order to get computers to learn how to deal with the real world and become autonomous agents. We will teach you all about Supervised and Unsupervised Learning. You're also going to learn the concepts behind all the major algorithms that are used in Data Science and Machine Learning. Inside you'll discover: What Linear Regression is, and the concept of least squares; Types of learning used to train machines to think and act autonomously; Avoid getting lost in Decision Trees and Random Forests; Understand Logistic Regression; Learn how tools like Clustering are used; Find out some of the recent applications of Machine Learning to the real world; See how Machine Learning is being used in Social Media, Analysis, by Government and by companies like Amazon, Netflix and Google; And much more... So, don't waste anymore time and let's start your journey !! \*\*\*Scroll up and click the BUY NOW button\*\*\*

**ANALYSIS AND DESIGN OF ALGORITHMS**-Shefali Singhal 2018-06-02 The book has been written in such a way that the concepts and working of algorithms are explained in detail, with adequate examples. To make clarity on the topic, diagrams, calculation of complexity, algorithms are given extensively throughout. Many examples are provided which are helpful in understanding the algorithms by various strategies. This content is user-focused and has been highly updated including algorithms and their real-world examples. Key features This book is especially designed for beginners, and explains all aspects of algorithm and its analysis in a simple and systematic manner. Algorithms and their working are explained in detail with the help of several illustrative examples. Important features like greedy algorithm, dynamic algorithm, string matching algorithm, branch and bound algorithm, NP hard and NP complete problems are suitably highlighted. Solved and frequently asked questions in the various competitive examinations, sample papers of the past examinations are provided which will serve as a useful reference source. The book would serve as an extremely useful text for BCA, MCA, M. Sc. (Computer Science), PGDCA, BE (Information Technology) and B. Tech. and M.

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Tech. students. Contents Algorithm & Algorithmic Strategy Complexity of Algorithms Divide-and-Conquer Algorithms Greedy Algorithm Dynamic Programming Graph Theory Backtracking Algorithms Branch and Bound Algorithms String-Matching Algorithms P and NP Problems

**Parallel Genetic Algorithms**-Gabriel Luque 2011-06-15 This book is the result of several years of research trying to better characterize parallel genetic algorithms (pGAs) as a powerful tool for optimization, search, and learning. Readers can learn how to solve complex tasks by reducing their high computational times. Dealing with two scientific fields (parallelism and GAs) is always difficult, and the book seeks at gracefully introducing from basic concepts to advanced topics. The presentation is structured in three parts. The first one is targeted to the algorithms themselves, discussing their components, the physical parallelism, and best practices in using and evaluating them. A second part deals with the theory for pGAs, with an eye on theory-to-practice issues. A final third part offers a very wide study of pGAs as practical problem solvers, addressing domains such as natural language processing, circuits design, scheduling, and genomics. This volume will be helpful both for researchers and practitioners. The first part shows pGAs to either beginners and mature researchers looking for a unified view of the two fields: GAs and parallelism. The second part partially solves (and also opens) new investigation lines in theory of pGAs. The third part can be accessed independently for readers interested in applications. The result is an excellent source of information on the state of the art and future developments in parallel GAs.

**Artificial Intelligence with Python**-Prateek Joshi 2017-04-28 Build real-world AI applications with Python to intelligently interact with your surroundings About This Book\* Step into the amazing world of intelligent apps using this comprehensive guide\* Enter the world of AI, explore it, and become independent to create your own AI apps\* Work through simple yet insightful examples that will get you up and running with artificial intelligence in no time Who This Book Is For This book is for Python developers who want to build real-world AI applications. This book is friendly to Python beginners, but being familiar with Python would

be useful to play around with the code. It will also be useful for experienced Python programmers who are looking to implement AI techniques in their existing technology stacks. What You Will Learn\* Find out how to use different classification and regression techniques\* Understand the concept of clustering and how to use it to automatically segment data\* See how to build an intelligent recommender system\* Understand logic programming and how to use it\* Develop automatic speech recognition systems\* Understand the basics of heuristic search and genetic programming\* Develop an understanding of reinforcement learning\* Discover how to build AI applications centered on images, text, and time series data\* Understand how to use deep learning algorithms and build applications based on it In Detail AI is becoming increasingly relevant in the modern world where the ecosystem is driven by technology and data. AI is used extensively across many fields such as robotics, computer vision, finance, and so on. We will explore various real-world scenarios in this book and you'll learn about various AI algorithms that can be used to build various applications. During the course of this book, you will find out how to make informed decisions about what algorithms to use in a given context. Starting from the basics of the AI concepts, you will learn how to develop the various building blocks of AI using different data mining techniques. You will see how to implement different algorithms to get the best possible results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to any application based on images, text, stock market, or some other form of data, this exciting book on AI will definitely guide you all the way!

**Fundamentals of Computer Programming with C#**-Svetlin Nakov 2013-09-01 The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced

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programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first

search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

**Cryptocurrency for Beginners**-Stephen Satoshi 2018-07-31 If you're thinking of buying cryptocurrency in the future, consider this... "If only I'd bought back then" Sound familiar? It probably does. Because when it comes to cryptocurrency, there are so many "if only" or "the one that got away" stories. 7 years ago you could've bought 1 Bitcoin for just 10 cents. That same Bitcoin is worth over \$8000 today. 100 dollars invested in 2010 would be worth over 8 million dollars today! But now you have an opportunity that's far from typical. It's an opportunity to cryptocurrencies, while the prices are down 60% from the start of the year? You're probably thinking - if prices are down so much, why on Earth would I buy? The answer is, this dip is only temporary. Because it gives institutions like investment banks a chance to load up their own holdings for less. Banks like JP Morgan, who just last year were adamantly against cryptocurrency - but now are offering it as an investment option And the Chicago Board of Exchange who just filed an application to provide the world's first Bitcoin ETF. Which is why earlier this month, Bitcoin rose 28% in just 4 days. Indicating that the next big boom might just be upon us... In this giant 15 book bundle you will discover: A complete analysis of over 70! different cryptocurrencies (no other book on Amazon comes close) 7 giant cryptocurrency mistakes that are guaranteed to lose you money - and how you can avoid making them A step-by-step guide on how to safely store your newly bought cryptocurrency A secret but completely legal way to buy coins on Coinbase without paying transaction fees (potentially saving you hundreds of dollars per year) How to use

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cryptocurrency to hedge against your traditional portfolio A coin with game changing technology which will open up partnerships with Fortune 500 companies A fundamental analysis of 7 high growth potential cryptocurrencies that all utilize Ethereum technology How a tiny plastic tube is making investors in this marijuana company very rich The only gaming coin with actual ties to the casino industry (this is vital for future growth) How to legally invest in cryptocurrencies tax free How even a technophobic 90 year old can buy Bitcoin is less than 15 minutes (no more difficult than buying anything else online) ...and much, much more! Plus not one, but four free bonuses inside! Including guides on crisis investing and marijuana stocks with profit producing information like The "McDonald's secret", which directly relates to the marijuana industry and your chance of profiting How regular folks can legally benefit from holding assets offshore The absolute worst type of stock to have in your portfolio, and one that always plummets during a downturn The one sub-section of the marijuana industry you must be in The "3 Rs" stocks which perform best in a bad market What your broker isn't telling you about airline stocks But aren't cryptocurrencies risky? Like any investment, they carry certain risks. That's why this book helps you stay informed and armed with the best knowledge possible - all broken down into easy, digestible language. There is one small thing to bear in mind though... Unless you want another "if only" story - the time is now. Because things move fast in the crypto space, and today's golden opportunity becomes tomorrows missed opportunity. So if you're ready to become a part of the world's fastest growing and most exciting market - scroll up and click "add to cart" to receive your book instantly! P.S. Many cryptocurrency analysts now predict Bitcoin could reach up to \$65,000 by the end of the year, and other cryptocurrencies inside this mega bundle could go even higher

**Algorithms Unlocked**-Thomas H. Cormen  
2013-03-01 For anyone who has ever wondered how computers solve problems, an engagingly written guide for nonexperts to the basics of computer algorithms. Have you ever wondered how your GPS can find the fastest way to your destination, selecting one route from seemingly countless possibilities in mere seconds? How your credit card account number is protected when you make a purchase over the Internet? The answer is algorithms. And how do these

mathematical formulations translate themselves into your GPS, your laptop, or your smart phone? This book offers an engagingly written guide to the basics of computer algorithms. In Algorithms Unlocked, Thomas Cormen—coauthor of the leading college textbook on the subject—provides a general explanation, with limited mathematics, of how algorithms enable computers to solve problems. Readers will learn what computer algorithms are, how to describe them, and how to evaluate them. They will discover simple ways to search for information in a computer; methods for rearranging information in a computer into a prescribed order ("sorting"); how to solve basic problems that can be modeled in a computer with a mathematical structure called a "graph" (useful for modeling road networks, dependencies among tasks, and financial relationships); how to solve problems that ask questions about strings of characters such as DNA structures; the basic principles behind cryptography; fundamentals of data compression; and even that there are some problems that no one has figured out how to solve on a computer in a reasonable amount of time.

**Machine Learning for Beginners 2019**-Matt Henderson 2019-04-05 Want to predict what your customers want to buy without them having to tell you? Want to accurately forecast sales trends for your marketing team better than any employee could ever do? Then keep reading. You've heard it before. The rise of artificial intelligence and how it will soon replace human beings and take away our jobs. What exactly is it capable of and how does this impact me? The real question you should be asking yourself is how can I use this to my advantage? How can I use machine learning to benefit my business and surpass my business goals? This book has the answer. Designed for the tech novice, this book will break down the fundamentals of machine learning and what it truly means. You will learn to leverage neural networks, predictive modelling, and data mining algorithms, illustrated with real-world applications for finance, business and marketing. Machine learning isn't just for scientists or engineers anymore. It's become accessible to anyone, and you can discover it's benefits for your business. In Machine Learning for Beginners 2019, we will reveal: □ The fundamentals of machine learning. □ Each of the buzzwords defined! □ 20 real-world applications of machine learning. □ How to predict when a customer is about to churn (and

prevent it from happening). □ How to "upsell" to your customers and close more sales. □ How to deal with missing data or poor data. □ Where to find free datasets and libraries. □ Exactly which machine learning libraries you need. □ And much much more! I know you might be overwhelmed at this point, but I assure you this book has been designed for absolute beginners. Everything is in plain English. There is no code, so no coding experience is required. You won't walk away a machine learning god, but you will walk away with key strategies you can implement right away to improve your business. □ If you are ready to start making big changes to your business, scroll up and click buy. □

**Machine Learning for Beginners**-Ethem Mining 2019-12-03 Are you fascinated about machine learning and AI and you don't know where to start? Have you ever heard people talking about Machine Learning but you only have a vague idea of the actual meaning? Do you want to understand how machine learning could simplify your daily life? Imagine a world where computing systems understand people and the world around us them to a point where they can notice patterns, collect data, interpret it and give recommendations to solve real world problems with high level of precision. It sounds like science fiction but it is happening in healthcare, agriculture, cyber security, facial recognition, targeting and retargeting customers in online advertising, recommending specific products, stories, videos, text etc., self-driving cars, real time pricing, predicting human behavior and much more. Now imagine you being one of the people behind the code; the people who get these advanced systems to work the way they do. Would it be a dream come true for you? By virtue that you are reading this, it is clear that you have some special liking for this advanced tech and would want to learn how you can be one of the people behind the code. Even if not, you probably want to be able to understand the inner workings of these systems. The concept may sound extremely out there and advanced but it won't be if you follow this guide, which takes an easy to follow, beginner friendly language to help you to understand the ins and outs of machine learning! Here is a summary of what this book will teach you: The basics of machine learning, including what it is, how machine learning has evolved over the years, the application of machine learning in today's world and the future of machine learning How machine learning is

beneficial in today's world The different approaches to machine learning, including unsupervised, supervised, reinforcement learning method, semi-supervised machine learning and many others The concept of big data analysis, including what is big data, why big data is important, the application of big data in today's world as well as the different data analysis tools that you can use The link between big data and machine learning The different machine learning algorithms, including what machine-learning algorithms are and how and when the different learning algorithms are used The concept of artificial neural networks, including how they work, when to use neural networks and more How decision trees are used in machine learning, including what decision trees are (in respect to machine learning), how they work, how the decision tree is read, the different nodes in decision trees and when to use them The ins and outs of linear and logistic regression in machine learning, including what linear regression is, different types of regression, how linear regression works, how linear regression is used and much more And much more! Even if this is your first encounter with the concept of machine learning, this book will uncover everything you need to know to master machine learning and possibly get started in this field of advanced computing knowing very well what you are venturing into. And the good thing is that the book takes a beginner friendly approach to help you to apply what you learn right away! Would You Like To Know More? Click Buy Now With 1-Click or Buy Now to get started!

**Machine Learning with Python**-Alexander Cane 2020-03-17 Are you looking for a guide that will teach you all you need to know about Machine Learning? Are you looking for a way to learn how to write algorithms from scratch? This 3 book bundle will help you to master Machine Learning with Python. Manuscript - 1 Before you get into the world of machine learning, you have to start at the very basics if you are just getting started with programming. Python is one of the best platforms to start with as it serves as a core of modern computing techniques such as deep learning, machine learning and neural networks. In this book, you will learn exactly what advantages Python has over other languages. You will also learn how to set up Python in your system and code and run basic programs all with the aid of sample codes provided throughout the book. From syntax to functions to data types to

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conditional statements, Machine Learning with Python is well-rounded to assist you in your coding journey. Manuscript - 2 Artificial intelligence is a common part of our lives, and we use it daily. Machine learning is one application of artificial intelligence and is where software, computers and devices use cognition to learn. If you use Siri on an iPhone, Cortana on your Windows PC, or Alexa, you are already making use of machine learning, especially when they provide you with traffic news, weather predictions, search results, and more. With this guide, you will learn the machine learning basics, using real code and open-source data sets. You will learn: -An overview of the Python language- Popular machine learning algorithms-Basics of machine learning-Machine learning terminology-How to preprocess data-How to create data sets-How to use Scikit-learn to build models-Using TensorFlow to build neural networks-And much more I even provide you with a multiple choice quiz, complete with answers, to help you test your knowledge. Manuscript - 3 This book focuses on advanced sub-domains of machine learning, such as Class Imbalance strategies, Hidden Markov Models, HMM, Reinforcement Learning, RNN, and LSTM, along with a few more advanced level topics. With its high power and ease of use, we will use the Scikit Machine Learning Library in Python. Unlike statistics, where models are used to understand data, different modeling in machine learning focuses on developing models that make more accurate predictions. Unlike the broader area of machine learning that can be used with data of any format, Hidden Markov models focus on robotics (e.g., controlling the robots by programming). This book is designed to introduce you to the most important and powerful methods of machine learning used by leading computer experts. It contains clear examples and detailed code samples to demonstrate deep learning, semi-directed learning, and other techniques. The methods discussed in this book will help you get started in this profitable and growing industry.-Compete with the best data professionals and gain practical and theoretical insight into the latest in-depth training algorithms.-Use your new skills to solve real-world problems-Automation of large and complex data sets and overcoming complex and time-consuming practices.-Increase the accuracy of existing models and their input using object design methods.-Sharing of different training methods to improve the consistency of results.-Understand the hidden structure of documents

using various unmanaged methods-To further improve the effectiveness of training models by using consistent methods to combine different models. In addition, the book is designed in such a way that any student, researcher, or technologist who conducts various experiments using large data sets and combines them into a predictive output can use a variety of machine learning tools offered by the programming language. Grab this 3 book bundle today and start learning how to code your very own machine learning algorithms!

**Head First C :-** Harry. H. Chaudhary 2014-07-09  
Essential C Programming Skills-Made Easy-Without Fear! Write powerful C programs...without becoming a technical expert! This book is the fastest way to get comfortable with C, one incredibly clear and easy step at a time. You'll learn all the basics: how to organize programs, store and display data, work with variables, operators, I/O, pointers, arrays, functions, and much more. C programming has never been this simple! This C Programming book gives a good start and complete introduction for C Programming for Beginner's. Learn the all basics and advanced features of C programming in no time from Bestselling Programming Author Harry. H. Chaudhary. This Book, starts with the basics; I promise this book will make you 100% expert level champion of C Programming. This book contains 1000+ Live C Program's code examples, and 500+ Lab Exercise & 200+ Brain Wash Topic-wise Code book and 20+ Live software Development Project's. All what you need ! Isn't it ? Write powerful C programs...without becoming a technical expert! This book is the fastest way to get comfortable with C, one incredibly clear and easy step at a time. You'll learn all the basics: how to organize programs, store and display data, work with variables, operators, I/O, pointers, arrays, functions, and much more. (See Below List) C programming has never been this simple! Who knew how simple C programming could be? This is today's best beginner's guide to writing C programs-and to learning skills you can use with practically any language. Its simple, practical instructions will help you start creating useful, reliable C code. This book covers common core syllabus for BCA, MCA, B.TECH, BS (CS), MS (CS), BSC-IT (CS), MSC-IT (CS), and Computer Science Professionals as well as for Hackers. This Book is very serious C Programming stuff: A complete introduction to C Language. You'll

learn everything from the fundamentals to advanced topics. If you've read this book, you know what to expect a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other C book you've ever read. Learning a new language is no easy. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work--recording things that matter. How does your brain know what matters? (A) 1000+ Live C Program's code examples, (B) 500+ Lab Exercises, (C) 200+ Brain Wash Topic-wise Code (D) 20+ Live software Development Project's. (E) Learn Complete C- without fear, . || Inside Chapters. || 1. Preface - Page-6, || Introduction to C. 2. Elements of C Programming Language. 3. Control statements (conditions). 4. Control statements (Looping). 5. One dimensional Array. 6. Multi-Dimensional Array. 7. String (Character Array). 8. Your Brain on Functions. 9. Your Brain on Pointers. 10. Structure, Union, Enum, Bit Fields, Typedef. 11. Console Input and Output. 12. File Handling In C. 13. Miscellaneous Topics. 14. Storage Class. 15. Algorithms. 16. Unsolved Practical Problems. 17. PART-II-120+ Practical Code Chapter-Wise. 18. Creating & Inserting own functions in Liberaary. 19. Graphics Programming In C. 20. Operating System Development -Intro. 21. C Programming Guidelines. 22. Common C Programming Errors. 23. Live Software Development Using C.

### **Python: Real World Machine Learning-**

Prateek Joshi 2016-11-14 Learn to solve challenging data science problems by building powerful machine learning models using Python About This Book Understand which algorithms to use in a given context with the help of this exciting recipe-based guide This practical tutorial tackles real-world computing problems through a rigorous and effective approach Build state-of-the-art models and develop personalized recommendations to perform machine learning at scale Who This Book Is For This Learning Path is for Python programmers who are looking to use machine learning algorithms to create real-world

applications. It is ideal for Python professionals who want to work with large and complex datasets and Python developers and analysts or data scientists who are looking to add to their existing skills by accessing some of the most powerful recent trends in data science. Experience with Python, Jupyter Notebooks, and command-line execution together with a good level of mathematical knowledge to understand the concepts is expected. Machine learning basic knowledge is also expected. What You Will Learn Use predictive modeling and apply it to real-world problems Understand how to perform market segmentation using unsupervised learning Apply your new-found skills to solve real problems, through clearly-explained code for every technique and test Compete with top data scientists by gaining a practical and theoretical understanding of cutting-edge deep learning algorithms Increase predictive accuracy with deep learning and scalable data-handling techniques Work with modern state-of-the-art large-scale machine learning techniques Learn to use Python code to implement a range of machine learning algorithms and techniques In Detail Machine learning is increasingly spreading in the modern data-driven world. It is used extensively across many fields such as search engines, robotics, self-driving cars, and more. Machine learning is transforming the way we understand and interact with the world around us. In the first module, Python Machine Learning Cookbook, you will learn how to perform various machine learning tasks using a wide variety of machine learning algorithms to solve real-world problems and use Python to implement these algorithms. The second module, Advanced Machine Learning with Python, is designed to take you on a guided tour of the most relevant and powerful machine learning techniques and you'll acquire a broad set of powerful skills in the area of feature selection and feature engineering. The third module in this learning path, Large Scale Machine Learning with Python, dives into scalable machine learning and the three forms of scalability. It covers the most effective machine learning techniques on a map reduce framework in Hadoop and Spark in Python. This Learning Path will teach you Python machine learning for the real world. The machine learning techniques covered in this Learning Path are at the forefront of commercial practice. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Python Machine Learning Cookbook by Prateek

Joshi Advanced Machine Learning with Python by John Hearty Large Scale Machine Learning with Python by Bastiaan Sjardin, Alberto Boschetti, Luca Massaron Style and approach This course is a smooth learning path that will teach you how to get started with Python machine learning for the real world, and develop solutions to real-world problems. Through this comprehensive course, you'll learn to create the most effective machine learning techniques from scratch and more!

**Grokking Algorithms**-Aditya Y. Bhargava 2016-05-25 Summary Grokking Algorithms is a fully illustrated, friendly guide that teaches you how to apply common algorithms to the practical problems you face every day as a programmer. You'll start with sorting and searching and, as you build up your skills in thinking algorithmically, you'll tackle more complex concerns such as data compression and artificial intelligence. Each carefully presented example includes helpful diagrams and fully annotated code samples in Python. Learning about algorithms doesn't have to be boring! Get a sneak peek at the fun, illustrated, and friendly examples you'll find in Grokking Algorithms on Manning Publications' YouTube channel. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology An algorithm is nothing more than a step-by-step procedure for solving a problem. The algorithms you'll use most often as a programmer have already been discovered, tested, and proven. If you want to understand them but refuse to slog through dense multipage proofs, this is the book for you. This fully illustrated and engaging guide makes it easy to learn how to use the most important algorithms effectively in your own programs. About the Book Grokking Algorithms is a friendly take on this core computer science topic. In it, you'll learn how to apply common algorithms to the practical programming problems you face every day. You'll start with tasks like sorting and searching. As you build up your skills, you'll tackle more complex problems like data compression and artificial intelligence. Each carefully presented example includes helpful diagrams and fully annotated code samples in Python. By the end of this book, you will have mastered widely applicable algorithms as well as how and when to use them. What's Inside Covers search, sort, and graph algorithms Over 400 pictures with detailed walkthroughs Performance trade-offs between algorithms Python-based code

samples About the Reader This easy-to-read, picture-heavy introduction is suitable for self-taught programmers, engineers, or anyone who wants to brush up on algorithms. About the Author Aditya Bhargava is a Software Engineer with a dual background in Computer Science and Fine Arts. He blogs on programming at adit.io. Table of Contents Introduction to algorithms Selection sort Recursion Quicksort Hash tables Breadth-first search Dijkstra's algorithm Greedy algorithms Dynamic programming K-nearest neighbors

**Python Machine Learning For Beginners 2021**-Steven Williams 2020-12-05 If you want to learn how to design and master different Machine Learning algorithms quickly and easily, then keep reading. We live in a world of data deluge where gigabytes of data are generated daily. It is possible that this data might not be very useful for our daily applications. Major setbacks in the use of such data may be due to the presence of loopholes in data links previously generated or the data might be too vast for the limited human mind. Machine learning in this book presents some of the solutions to the problems above. Being an introductory guide, expect to learn the various basics involved in Machine Learning and Python. This book provides an insight into the new world of big data, then behooves you to learn more about Machine Learning. With a detailed and concise overview of the fundamentals, along with the challenges and limitations currently being tackled by the pros, inside this comprehensive guide you will Learn the Fundamentals of Machine Learning which Are Being Developed and Advanced with Python What is Machine Learning and how it is applied in real-world situations Algorithms, in a Language that Requires No Prior Background in Python Discover best practices for evaluating and tuning models Discover the Details of the Supervised, Unsupervised, and Reinforcement Algorithms, which Serve as the Skeleton of Hundreds of Machine Learning Algorithms Being Developed Every Day Become Familiar with Data Science Technology, an Umbrella Term Used for the Cutting-Edge Technologies of Today Understand the Entire Process of Creating Neural Network Models on TensorFlow, Using Open Source Data Sets and real Python Code Uncover the Secrets of the Most Critical Aspect of Developing a Machine Learning Model - Data Pre-Processing and Training/Testing Subsets Artificial Neural

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Networks And Much More! So what are you waiting for? Even if some concepts of Machine Learning algorithms can appear complex to most computer programming beginners, this book takes the time to explain them in a simple and concise way. Would You Like To Know More? Scroll up and click on the BUY NOW button to get your copy now!

**Algorithms in a Nutshell**-George T. Heineman  
2008-10-14 Creating robust software requires the use of efficient algorithms, but programmers seldom think about them until a problem occurs. Algorithms in a Nutshell describes a large number of existing algorithms for solving a variety of problems, and helps you select and implement the right algorithm for your needs -- with just enough math to let you understand and analyze algorithm performance. With its focus on application, rather than theory, this book provides efficient code solutions in several programming languages that you can easily adapt to a specific project. Each major algorithm is presented in the style of a design pattern that includes information to help you understand why and when the algorithm is appropriate. With this book, you will: Solve a particular coding problem or improve on the performance of an existing solution Quickly locate algorithms that relate to the problems you want to solve, and determine why a particular algorithm is the right one to use Get algorithmic solutions in C, C++, Java, and Ruby with implementation tips Learn the expected performance of an algorithm, and the conditions it needs to perform at its best Discover the impact that similar design decisions have on different algorithms Learn advanced data structures to improve the efficiency of algorithms With Algorithms in a Nutshell, you'll learn how to improve the performance of key algorithms essential for the success of your software applications.

**Problem Solving with Algorithms and Data Structures Using Python**-Bradley N. Miller  
2011 THIS TEXTBOOK is about computer science. It is also about Python. However, there is much more. The study of algorithms and data structures is central to understanding what computer science is all about. Learning computer science is not unlike learning any other type of difficult subject matter. The only way to be successful is through deliberate and incremental exposure to the fundamental ideas. A beginning

computer scientist needs practice so that there is a thorough understanding before continuing on to the more complex parts of the curriculum. In addition, a beginner needs to be given the opportunity to be successful and gain confidence. This textbook is designed to serve as a text for a first course on data structures and algorithms, typically taught as the second course in the computer science curriculum. Even though the second course is considered more advanced than the first course, this book assumes you are beginners at this level. You may still be struggling with some of the basic ideas and skills from a first computer science course and yet be ready to further explore the discipline and continue to practice problem solving. We cover abstract data types and data structures, writing algorithms, and solving problems. We look at a number of data structures and solve classic problems that arise. The tools and techniques that you learn here will be applied over and over as you continue your study of computer science.

**Machine Learning For Beginners**-Declan Mellor  
2020-04-03 Interested in the field of Artificial Intelligent? Then this book is for you!This book has been designed to learn complex theory, algorithms and coding libraries in a simple way. We will walk you step-by-step into the World of AI. With every tutorial you will develop new skills and improve your understanding of this challenging yet lucrative sub-field of Data Science. This guide is fun and exciting, but at the same time we dive deep into different aspects of AI. Moreover, the book is packed with practical exercises which are based on real-life examples. So not only will you learn the theory, but you will also get some hands-on practice building your own models. This book includes Python code templates which you can download and use on your own projects. Anyone interested in Artificial Intelligence Any students in college who want to start a career in Data Science Anyone who want to create added value to their business by using AI Anyone who want to kickstart their Artificial Intelligence journey See you Inside

**Learn Python Programming for Beginners**-Lewis Smith  
2021-02-18 Learn Python Programming for Beginners-The Ultimate and Complete Tutorial to Easily Get the Python Intermediate Level with Step-by-Step Practical Exercise, to Code with Python Starting from

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Scratch. Learning to code is essential to keep up with the times, increasing the opportunities that life has to offer you. Whether you are a tech enthusiast, enterprising student, or entrepreneur, if you choose to learn Python you are making the right and winning choice. Web development? Artificial intelligence? Automation and IoT? Python is all of this and more! Python can be used as an effective choice in any application and project, be it small or large. This characteristic makes it encountered in any modern software development scenario. Did you know that Python is one of the languages behind extremely popular services and websites like Instagram, YouTube, Reddit, and Mozilla? You cannot enter the magic and rich IT world without knowing what Python is and how it works... ... and this incredibly exhaustive tutorial will give you all the knowledge and information you need to become a Python Pro! In this book, you will: Clearly and Easily Understand What Python Is and How It Works, starting from the instructions to correctly install it on your PC to show you how it runs and works. Discover Secret Tips and Tricks to Get Started with Python for Beginners to enhance your skills and help you with daily data science tasks. If you want to make your Python coding more efficient, do not miss these tips/tricks! Learn the Best Machine Learning Algorithms for Beginners with Coding Samples in Python; it is excellent for algorithmic design, as it is used extensively in data science and machine learning technologies. Get the Fundamentals of Python Data Structures to introduce you to object-oriented design and data structures using this popular programming language, and give you the necessary knowledge to do whatever you want with Python. Learn How Python Makes Decisions to Control Flow in Programming. It is crucial to control the program execution because, in real scenarios, the situations are full of conditions, and if you want your program to mimic the real world closer, then you need to transform those real-world situations into your program. ... & Lot More! For those new to programming, the number one priority is to sit in front of the screen and learn how to program as quickly as possible! Python was designed not only to be simple to understand but also fun to use. You can create prototypes and mini-programs very quickly, to immediately experience real satisfaction. It is thanks to this simplicity that it has gained not only a great deal of popularity but also a reputation as an "easy to learn language". Python Programming for Beginners will become your best friend in

helping you enter the Python world as smoothly as possible; all you need to know and the support is right here at your fingertips. You have only to click on the button below and... Order Your Copy Now to Start Coding like a PRO!

### **Learn Programming Python for Beginners-**

Lewis Smith 2021-03-16 Learn Python Programming for Beginners 2021 -The Ultimate and Complete Tutorial to Easily Get the Python Intermediate Level with Step-by-Step Practical Exercise, to Code with Python Starting from Scratch. Learning to code is essential to keep up with the times, increasing the opportunities that life has to offer you. Whether you are a tech enthusiast, enterprising student, or entrepreneur, if you choose to learn Python you are making the right and winning choice. Web development? Artificial intelligence? Automation and IoT? Python is all of this and more! Python can be used as an effective choice in any application and project, be it small or large. This characteristic makes it encountered in any modern software development scenario. Did you know that Python is one of the languages behind extremely popular services and websites like Instagram, YouTube, Reddit, and Mozilla? You cannot enter the magic and rich IT world without knowing what Python is and how it works... ... and this incredibly exhaustive tutorial will give you all the knowledge and information you need to become a Python Pro! In this book, you will: Clearly and Easily Understand What Python Is and How It Works, starting from the instructions to correctly install it on your PC to show you how it runs and works. Discover Secret Tips and Tricks to Get Started with Python for Beginners to enhance your skills and help you with daily data science tasks. If you want to make your Python coding more efficient, do not miss these tips/tricks! Learn the Best Machine Learning Algorithms for Beginners with Coding Samples in Python; it is excellent for algorithmic design, as it is used extensively in data science and machine learning technologies. Get the Fundamentals of Python Data Structures to introduce you to object-oriented design and data structures using this popular programming language, and give you the necessary knowledge to do whatever you want with Python. Learn How Python Makes Decisions to Control Flow in Programming. It is crucial to control the program execution because, in real scenarios, the situations are full of conditions, and if you want your program to mimic the real world closer, then you need to

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transform those real-world situations into your program. ... & Lot More! For those new to programming, the number one priority is to sit in front of the screen and learn how to program as quickly as possible! Python was designed not only to be simple to understand but also fun to use. You can create prototypes and mini-programs very quickly, to immediately experience real satisfaction. It is thanks to this simplicity that it has gained not only a great deal of popularity but also a reputation as an "easy to learn language". Python Programming for Beginners will become your best friend in helping you enter the Python world as smoothly as possible; all you need to know and the support is right here at your fingertips. You have only to click on the button below and... Order Your Copy Now to Start Coding like a PRO!

#### **Real World OCaml**-Yaron Minsky 2013-11-04

This fast-moving tutorial introduces you to OCaml, an industrial-strength programming language designed for expressiveness, safety, and speed. Through the book's many examples, you'll quickly learn how OCaml stands out as a tool for writing fast, succinct, and readable systems code. Real World OCaml takes you through the concepts of the language at a brisk pace, and then helps you explore the tools and techniques that make OCaml an effective and practical tool. In the book's third section, you'll delve deep into the details of the compiler toolchain and OCaml's simple and efficient runtime system. Learn the foundations of the language, such as higher-order functions, algebraic data types, and modules Explore advanced features such as functors, first-class modules, and objects Leverage Core, a comprehensive general-purpose standard library for OCaml Design effective and reusable libraries, making the most of OCaml's approach to abstraction and modularity Tackle practical programming problems from command-line parsing to asynchronous network programming Examine profiling and interactive debugging techniques with tools such as GNU gdb

#### **Python Data Science**-Andrew Park 2021-04-27

☐ 55% OFF for Bookstores! NOW at \$ 12.14 instead of \$ 26.97! LAST DAYS! ☐ Do you want to learn More about Data Science or how to master it with Python?Your Customers Will Love This Amazing Guide!If you want to learn more about Data Science or how to master it with the Python

Programming Language, then keep reading. Data Science is one of the biggest buzzwords in the business world nowadays. Many businesses know the importance of collecting information, but as they can collect so much data in a short period, the real question is: "what is the next step?" Data Science includes all the different steps that you take with the data: collecting and cleaning them if they come from more than one source, analyzing them, applying Machine Learning algorithms and models, and then presenting your findings from the analysis with some good Data Visualizations. And this is what you will learn in Python Data Science. You will learn about the main steps that are needed to correctly implement Data Science techniques and the algorithms to help you sort through the data and see some amazing results. Some of the topics that we will discuss inside include: What data science is all about and why so many companies are using it to give them a competitive edge. Why Python and how to use it to implement Data Science What is the intersection between Machine Learning and Data Science and how to combine them The main Data Structures & Object-Oriented Python, with practical codes and exercises to use Python Functions and Modules in Python The 7 most important algorithms and models in Data Science Data Aggregation and Group Operations 9 important Data Mining techniques in Data Science Interaction with databases and data in the cloud And Much More! Where most books only focus on how collecting and cleaning the data, this book goes further, providing guidance on how to perform a proper analysis in order to extract precious information that may be vital for a business. Don't miss the opportunity to learn more about these topics. Even if you have never implemented Data Science techniques, learning them is easier than it looks. You just need the right guidance. And Python Data Science provides all the knowledge you need in a simple and practical way. Regardless of your previous experience, you will learn, the techniques to manipulate and process datasets, the principles of Python programming, and its most important real-world applications. Would You Like To Know More?Buy It NOW And Let Your Customers Get Addicted To This Amazing Book!

#### **Python Programming**-Ryan Turner 2018-11-20

If you're looking for a way to become an expert coder and impress your friends with the programs you can make from scratch, then keep

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reading. Here's the deal. You've decided that one of the most in-demand skills is the best place to start when making money. However, learning how to code can be a very long and arduous process. However not learning it and hiring a programmer can be very expensive. You may want to build an app or code a website but the costs have always been too high, making it pointless and not very cost effective. Sound familiar? If it does, then the information inside this book is your answer. You will be given all the tips, tricks, and practice codes that you need to learn Python, the solid programming language used in hundreds of industries around the world. This information allows you to become skilled much faster and perfect your coding skills in no time. Imagine cutting months off of your learning curve and get a strong base of knowledge in no time at all. Imagine getting your project done yourself for a fraction of the cost. This all is possible with the help of this three-book bundle, beginners, intermediate and expert guides! Don't be fooled by other books on the market. They only take a brief look into Python, showing some of the topics but never going deep into the topics and actually showing you how to work on the code and make it yours. This guidebook goes more in depth about the Python language. This is detailed, scientific information compiled together by experts in an easy to read fashion. In this Python guide, you will discover:

Book 1: \* The benefits of python \* How to get up and running with python \* Full instructions of how to code \* How to make predictions with algorithms \* Real world examples of Python \* The 3 different examples of coding...and so much more!

Book 2: \* The importance of Machine Learning \* The Basics of Working with Python \* How to Setting up Your Python Environment \* Data Preprocessing with Machine Learning \* Working with Linear Regression in Machine Learning \* The Benefits of a Decision Tree \* Working on the Random Forest Algorithm \* The Advantages of the Naive Bayes Algorithm \* How Can you Use the KNN Algorithm...And so much more !

Book 3: \* The best benefits of Python and why programmers around the world choose it \* How to download the Python language on your computer, regardless of the operating system you prefer \* How to write your first program in Python \* What is means to work with an object-oriented programming language \* How to write conditional statements, loops, functions, variables, classes, exceptions, and more \* How to read some of the errors that may show up in your code \* How to troubleshoot your own codes \* Sample projects that walk you

through how to complete them and use many of the tools and techniques you have learned through this guidebook If you want to learn more about how to get the best Python training and if you are ready to write your own codes and turn your ideas into reality, then simply click the buy now button on this page to get started.

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**A Beginner's Guide To Mathematica**-David McMahon 2006-01-13 Because of its large command structure and intricate syntax, Mathematica can be difficult to learn. Wolfram's Mathematica manual, while certainly comprehensive, is so large and complex that when trying to learn the software from scratch -- or find answers to specific questions -- one can be quickly overwhelmed. A Beginner's Guide to Mathemat

**Machine Learning For Dummies**-John Paul Mueller 2021-02-09 One of Mark Cuban's top reads for better understanding A.I. (inc.com, 2021) Your comprehensive entry-level guide to machine learning While machine learning expertise doesn't quite mean you can create your own Turing Test-proof android—as in the movie Ex Machina—it is a form of artificial intelligence and one of the most exciting technological means of identifying opportunities and solving problems fast and on a large scale. Anyone who masters the principles of machine learning is mastering a big part of our tech future and opening up incredible new directions in careers that include fraud detection, optimizing search results, serving real-time ads, credit-scoring, building accurate and sophisticated pricing models—and way, way more. Unlike most machine learning books, the fully updated 2nd Edition of Machine Learning For Dummies doesn't assume you have years of experience using programming languages such as Python (R source is also included in a downloadable form with comments and explanations), but lets you in on the ground floor, covering the entry-level materials that will

get you up and running building models you need to perform practical tasks. It takes a look at the underlying—and fascinating—math principles that power machine learning but also shows that you don't need to be a math whiz to build fun new tools and apply them to your work and study. Understand the history of AI and machine learning Work with Python 3.8 and TensorFlow 2.x (and R as a download) Build and test your own models Use the latest datasets, rather than the worn out data found in other books Apply machine learning to real problems Whether you want to learn for college or to enhance your business or career performance, this friendly beginner's guide is your best introduction to machine learning, allowing you to become quickly confident using this amazing and fast-developing technology that's impacting lives for the better all over the world.

**Pattern Theory**-David Mumford 2010-08-09 Pattern theory is a distinctive approach to the analysis of all forms of real-world signals. At its core is the design of a large variety of probabilistic models whose samples reproduce the look and feel of the real signals, their patterns, and their variability. Bayesian statistical inference then allows you to apply these models in the analysis of new signals. This book treats the mathematical tools, the models themselves, and the computational algorithms for applying statistics to analyze six representative classes of signals of increasing complexity. The book covers patterns in text, sound, and images. Discussions of images include recognizing characters, textures, nature scenes, and human faces. The text includes online access to the materials (data, code, etc.) needed for the exercises.

**Python Machine Learning**-Anthony MC Fedden 2019-08-04 Master the Art of Machine Learning with Python Programming! Don't you just wish you could download python coding & machine learning skills directly into your brain and become a killer programmer? Now it is possible! In this 2-in-1 books bundle, you'll find the complete guide to Python programming & Machine Learning. No need to research the internet for information, no need to bang your head against the wall because your codes aren't working - It's all here! In this special 2-in-1 books bundle, you'll learn: How to start programming with Python, even if you have no experience The

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### **Machine Learning for Absolute Beginners-**

Oliver Theobald 2021 Featured by Tableau as the first of "7 Books About Machine Learning for Beginners." Ready to spin up a virtual GPU instance and smash through petabytes of data? Want to add 'Machine Learning' to your LinkedIn profile? Well, hold on there... Before you embark on your journey, there are some high-level theory and statistical principles to weave through first. But rather than spend \$30-\$50 USD on a thick textbook, you may want to read this book first. As a clear and concise alternative, this book provides a high-level introduction to machine learning, free downloadable code exercises, and video demonstrations. Machine Learning for Absolute Beginners Third Edition has been written and designed for absolute beginners. This means plain-English explanations and no coding experience required. Where core algorithms are introduced, clear explanations and visual examples are added to make it easy to follow along at home. This new edition also features

extended chapters with quizzes, free supplementary online video tutorials for coding models in Python, and downloadable resources not included in the Second Edition. Readers of the Second Edition should not feel compelled to purchase this Third Edition. Disclaimer: If you have passed the 'beginner' stage in your study of machine learning and are ready to tackle coding and deep learning, you would be well served with a long-format textbook. If, however, you are yet to reach that Lion King moment - as a fully grown Simba looking over the Pride Lands of Africa - then this is the book to gently hoist you up and give a clear lay of the land. In this step-by-step guide you will learn: - How to download free datasets- What tools and machine learning libraries you need- Data scrubbing techniques, including one-hot encoding, binning and dealing with missing data- Preparing data for analysis, including k-fold Validation- Regression analysis to create trend lines- k-Means Clustering to find new relationships- The basics of Neural Networks- Bias/Variance to improve your machine learning model- Decision Trees to decode classification, and- How to build your first Machine Learning Model to predict house values using Python Frequently Asked Questions: Do I need programming experience to complete this e-book? A: This e-book is designed for absolute beginners, so no programming experience is required. However, two of the later chapters introduce Python to demonstrate an actual machine learning model, so you will see some programming used in this book. Q: I have already purchased the Second Edition of Machine Learning for Absolute Beginners, should I purchase this Third Edition? A: As the same topics from the Second Edition are covered in the Third Edition, you may be better served reading a more advanced title on machine learning. If you have purchased a previous edition of this book and wish to get access to the free video tutorials, please email the author. Q: Does this book include everything I need to become a machine learning expert? A: Unfortunately, no. This book is designed for readers taking their first steps in machine learning and further learning will be required beyond this book to master machine learning.